

### AMENDMENTS TO THE SPECIFICATION

After line 27 on page 3, please add the following section:

#### BRIEF DESCRIPTION OF THE DRAWINGS

*Figure 1* depicts a schematic illustration of a basic reactor.

*Figure 2* depicts a schematic illustration of a reactor for coating a medical device.

*Figure 3* depicts a schematic illustration of a reactor having several reactor vessels in parallel.

*Figure 4* graphically depicts dissolution of a biomimetic calcium phosphate coating in saline solution at pH 7.3 at 37°C.

*Figure 5* graphically depicts growth factor release as a function of immersion time in saline solution at pH 7.3 and 37°C.

*Figure 6* depicts the molecular structure of tobramycin.

*Figure 7* graphically depicts incorporation of tobramycin in a biomimetic CHA coating generated by co-precipitation.

*Figure 8* graphically depicts adsorption of tobramycin on a plasma-sprayed calcium phosphate coating.

*Figure 9* depicts the zone of inhibition observed for *Staphylococcus aureus* growth around a titanium disc coated with a biomimetic CHA coating containing tobramycin.

*Figure 10* graphically depicts colony forming units (CFU) per gram of bone observed around titanium implants coated with apatite in the presence or absence of tobramycin after injection of  $10^6$  CFU of *Staphylococcus aureus* in a bone defect.